

Patent Claims

1. A method for monitoring a rotation rate sensor with a vibrational gyroscope
 - 5 - which has a first input and a first output which form part of a primary control loop which excites the vibrational gyroscope by supplying an excitation signal to the first input at its natural frequency,
 - 10 - where the vibrational gyroscope also has a second input and a second output which form part of a secondary control loop,
 - where an output signal can be taken from the second output, said output signal being amplified and subjected to analog/digital conversion and then demodulated into an inphase component and a quadrature component,
 - 15 - where the components are filtered and are then modulated again and compiled to form a driver signal which is supplied to the second input, and
 - where a rotation rate signal is derived from the inphase component,
- 20 characterized
 - in that the inphase component and the quadrature component have a test signal added to them whose frequency brings about sidebands which are situated in the driver signal outside of the second control loop's passband,
 - 25 - in that the respective test signal which is present in the inphase component and in the quadrature component after passing through the control loop is monitored, and
 - in that an error message is output if the amplitude is below a prescribed threshold value.
- 30 35 2. The method as claimed in claim 1, characterized in that measurement signals are taken from the

